

Materials Engineers (17-2131)

Occupation description: Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Includes those engineers working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. Includes metallurgists and metallurgical engineers, ceramic engineers, and welding engineers.

Employment and Job Openings

	Average employment			Average annual openings		
	2010 estimate	2020 projection	Percent change	Growth	Replacement	Total
Alaska	59	66	11.9	1	2	2
United States	22,300	24,200	8.5	190	620	810

Job outlook

Alaska: Alaska's employment growth is moderate with low employment opportunities. [Read more.](#)

2013 Wages ?

	Mean Wage and 95% Confidence Interval			Wage by Percentile		
	Low	Mean	High	10th	Median	90th
United States	n/a	43.23	n/a	26.22	41.98	64.67

Labor Force Indicators

2012 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
74	36	48.6	51.1	37.8

2012 Potential Supply

Qualified but working in another occupation	15
Currently employed in a lower paid occupation	7
UI claimants previously working in occupation	13

2012 ALEXsys Employment Data

Number of registrants	31
Number of job position postings	16
Ratio of registrants to job position postings	1.9

Typical Entry-level Education, Experience, and/or On-the-job Training

Education: Bachelor's degree

Work experience: None

On-the-job training: None

Training Resources

	Degree
Alaska Computer Business Solutions LLC	
AutoCAD 2013 Essentials	
AutoCAD 2014 Advanced	
AutoCAD 2014 Beyond the Basics	
AutoCAD 2014 Essentials	
AutoCAD 2014 Update from 2012/2013	
AutoCAD Civil 3D 2014 Fundamentals	
AutoCAD Civil 3D Surveyors	
Drafting and Design Technology Program	
Vocational Training and Resource Center	
Drafting with AutoCAD	

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